

```
NTDB id 479 HSISS4 RS06980 WP 021143812.1      MPEKLVEVKDVEISFGEGSKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGHLSHS   80
NTDB id 302432 DTA40 RS06820 WP 002951426.1    MPEKLVEVKDVEISFGEGRKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGYLSHS   80
NTDB id 328 STU RS16110 WP 002951426.1         MPEKLVEVKDVEISFGEGRKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGYLSHS   80
NTDB id 296 STER RS06910 WP 011681415.1        MPEKLVEVKNVEISFGEGRKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGYLSHS   80
consensus                                      !!!!!!!!!*!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!
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NTDB id 479 HSISS4 RS06980 WP 021143812.1      EKNDLIRRIQMIFQDPAASLNERATVDYILSEGLHNFHLYKDEEDRKAKIKKIIKEVGLLEEHLTRYPHEFSGGQRQRIG   160
NTDB id 302432 DTA40 RS06820 WP 002951426.1    EKNDLIRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQRQRIG   160
NTDB id 328 STU RS16110 WP 002951426.1         EKNDLIRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQRQRIG   160
NTDB id 296 STER RS06910 WP 011681415.1        EKNDLIRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQRQRIG   160
consensus                                      !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!*!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!
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NTDB id 479 HSISS4 RS06980 WP 021143812.1      IARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYN   240
NTDB id 302432 DTA40 RS06820 WP 002951426.1    IARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYN   240
NTDB id 328 STU RS16110 WP 002951426.1         IARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYN   240
NTDB id 296 STER RS06910 WP 011681415.1        IARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYN   240
consensus                                      !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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NTDB id 479 HSISS4 RS06980 WP 021143812.1      NPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKAEIETYRKEQSK   309
NTDB id 302432 DTA40 RS06820 WP 002951426.1    NPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK   309
NTDB id 328 STU RS16110 WP 002951426.1         NPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK   309
NTDB id 296 STER RS06910 WP 011681415.1        NPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK   309
consensus                                      !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!
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X non conserved

X similar

X ≥ 50% conserved